

ABSTRACT OF THE DISCLOSURE

A propulsion device of the present invention operates in a bi-propellant mode by using a safe hydrogen peroxide as an oxidizer and has high specific impulse and high response performance. A preheated net 18 is provided in a combustion chamber 14. Both an oxidizer supply device 10 and a fuel supply device 12 open toward the net 18. The oxidizer and fuel 32 are atomized on the net 18 to thereby increase the surface area. At the same time, the oxidizer 30 and fuel 32 are heated on the net 18 and their decomposition is accelerated. By quickly effecting collision and mixing of the oxidizer 30 with the fuel 32, an instantaneous ignitability can be obtained.